BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 50.00 Lakhs

Name of Work:-Development and improvements to roads and drains in main roads and cross roads of ward no 03 Attur

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Removing B.S slab of drain and stacking.(PWD SR 2015-2016,Page no-25,item no5.32)	sqm							
	5th Cross		2	350.00	1.65		1155.00		
	(-)Deduct for cross roads portions		6	4.50	1.65		44.55		
							1110.45		
		Deduct 35%of Missing slabs qty					388.66		
							721.79	63.72	**45993.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	63.72							
2	Refixing stone slabs of drains and pointing in CM(1:3),(PWD SR 2015-2016,Page no-25,item no5.33)	Sqm							
			Vide Item No. 1				721.79	78.84	**56906.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	78.84							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete **do 7.5 cms** thick,(PWD SR 2015-2016,Page no-25,item no5.31)	sqm							
		35% of Missing slabs qty					388.66	663.12	**257727.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	663.12							
4	KSRRB 300-1,Earth work excavation by manual means in ordinary soil invlving an average horizontal throw up to 2 meters and an average lift up to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no 138, PWD SR 2015-16)	Cum							
	5th cross :-Desilting of drains		2	377.00	0.45	0.55	186.62		
	Over burden earth cutting		2	377.00	1.20	0.15	135.72		
	Sanitary &watersupply cut portion		1	377.00	1.75	0.20	131.95		
			1	377.00	1.50	0.20	113.10		
							567.39	83.16	47184.00

	Basic Rate	77.00							
	Area Weightage @ 8%	6.16							
	Total	**83.16**							
5	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	Cum							
	Foundation for culvert		1	4.80	1.40	0.90	6.05		
	(-)Deduct for Desilting of drain in culvert portion		1	4.80	0.45	0.60	1.30		
							4.75	**288.36**	**1370.00**
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total	288.36							
6	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials, labour, HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2 (Item no4.3,Page no12,PWD SR 2015-16)	Cum							
	Foundation for culvert		1	4.80	1.40	0.15	1.01		
	Basic Rate	4695.00					**1.01**	**5070.60**	**5111.00**
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
7	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasterise @ 3lts conforming etc as per specification&direction of the engineer incharge of work(pwd sr2015-16,p.no13,sno4.11)	Cum							
	Bed for culvert		1	4.80	1.30	0.20	1.25		
	Side wall		2	4.80	0.20	0.60	1.15		
	deck slab		2 1	4.80	1.20	0.20	1.15		

	Approach slab		1	4.80	0.30	0.15	0.22		
							3.77	**6198.12**	**23355.00**
	Basic rate	5739.00							
	Add 8% AW	459.12							
	Total	6198.12							
8	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe500(pwd sr 2015-16,p.no17,s.no 4.46)	M.t							
	For culvert 100 kg / cum						**3.77**		
							0.37	**69805.80**	**25828.00**
	Basic rate	64635.00							
	Add 8% AW	5170.80							
	Total	**69805.80**							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecification. Specification no.KBS 4.6.2 (pwd sr2015-16,p.no15/4.31)	Sqm							
	Side walls		4	4.80		0.60	11.52		
	for deck slab sides		1	4.80	0.60		2.89		
			2	4.80		0.20	1.92		
			2	1.20		0.20	0.48		
							16.81	**306.72**	**5156.00**
	Basic rate	284.00							
	Add 8% AW	22.72							
	Total	306.72							

10	KSRRB M400-6.1.Construction of granular sub base By providing close graded crushed ston aggregates of granite/trap/basalt material mixing in a mechanical mix plant at OMC Carriage of mixed material to work site.spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density complete as per specifications.A.plant mix method.20.4.1 Close graded granular sub -base material as per 400-1 For Grading-1 Material(PWD SR 2015-16 P.no154/20.4.1)	Cum							
	Sanitary supply pipe cut portion		1	377.00	1.75	0.60	395.85		
	Water supply pipe cut portion		1	377.00	1.50	0.60	339.30		
							735.15	**1654.56**	**1216350.00**
	Basic rate	1532.00							
	Add 8% AW	122.56							
	Total	1654.56							
11	KSRRB M400-17: Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications, MORTH Specification: 406 (PWD SR 2015-16 P.N.157 It 20.18)	Cum							
	Sanitary supply pipe cut portion		1	377.00	1.75	0.25	164.94		
	Water supply pipe cut portion		1	377.00	1.50	0.25	141.38		
	Road Widening portion		1	377.00	5.90	0.20	444.86		
							751.17	**1713.96**	**1287480.00**
	Basic rate	1587.00							
	Add 8% AW	126.96							
	Total	1713.96							
12	KSRRB M500-6,Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of ,60kg/Sqm using mechanical means complete as per specifications. MORTH SpecificationsNo502 (ITEMNO21.6,Page no157,PWD SR 2015-16)	Sqm							
	Road Widening portion		41	377.00	3.75		1413.75		
							1413.75	**32.40**	**45806.00**

	Basic rate	30.00							
	Add 8% AW	2.40							
	Total	**32.40**							
13	KSRB M500-13: Providing and laying bituminos macadam 50mm thick with 100-120 TPH hot mix plant producing an average out of 75 tonnes per hour using crushed aggregates of specified grading premixed with bitiminous binder, transported to site, laid over a prevuiusky prepared syrface with paver finisher to the required grade, level and alignament and rolled as per clauses 501.6 and 501.7 to achive the desired cinpactuib complete as per specifications. Mother specification No.504, 50-75mm compacted thickness(grading II) with 3.3% bitumen(P-161, It.21.11.2)	Cum							
	Road cut portion 5th main		1	377.00	3.75	0.05	70.69		
							70.69	**6864.48**	**485233.00**
	Basic rate	6356.00							
	Add 8% AW	508.48							
	Total	6864.48							
14	KSRB 500-09:Tack coat:Providing and applying tack coat with bitumen emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom, complete as per specifications. MORTH specification No.503 using bitumen emulsion (P-160.lt.21.9)	Sqm							
	(Including Deck &Approach portion)5th main		1	380.00	5.90		2242.00		
							2242.00	**24.84**	**55691.00**
	Basic rate	23.00							
	Add 8% AW	1.84							
	Total	**24.84**							

15	KSRRB M500-19: Providing and laying bituminous concrete 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, No.164 Item No. 21.23.1.PWD SR 2015-16	Cum							
	5th main		1	380.00	5.90	0.040	89.68		
							89.68	**11041.92**	**990239.00**
	Basic rate	10224.00							
	Add 8% AW	817.92							
	Total	11041.92							
16	KSRRB M800-13.Road Marking with applied thrmoplastic compound with Reflectrising Glass Beads on Bituminous surface:-Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per sqm area.thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35.The finished surface to be levell,uniform and free from streaks and holes complete as per specifications.MORTH Specifications No.803(PWD SR2015-2016 p.no181/24.15)	Sqm							
			2	380.00	0.10		76.00		
							76.00	**473.04**	**35951.00**
	Basic rate	438.00							
	Add 8% AW	35.04							
	Total	473.04							
17	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum. KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 133, PWD SR 2015-16)	Cum							
	Basic Rate	68.00	Vide Item No. 4+5				**572.14**	**73.44**	**42018.00**
	Area Weightage @ 8%	5.44							
	Total	**73.44**						TOTAL RS	**4627398.00**
	KRIDL Charges 8%								**370191.84**

									9838 = 00
	Miscellaneous charges	L/S							1686.19
								Total RS	5000000.00
(Rupees fifty lakhs only)									

Certificate:-

1 The work spot has been inspected and the work is found neccessary.
2 This estimate is prepared as per C.S.R. of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 05

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

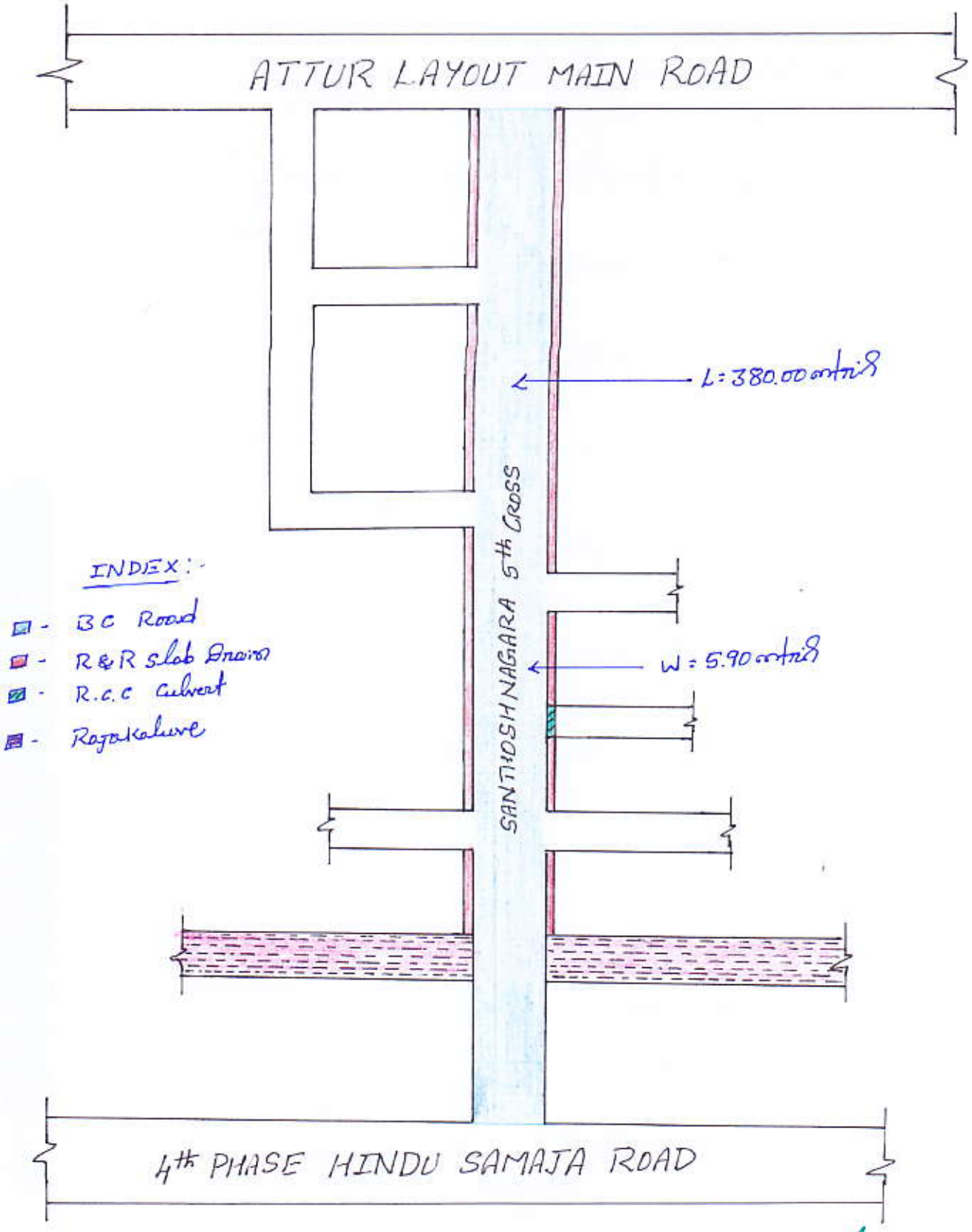
Technical Sanction
Accorded For ..50,00,000/-
Head of A/C...~~P-1330~~ 3110
CER NO :....HQ..... **Dt**:..10-3-2016

TA CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs 50.00 lakhs
Rupees fifty lakhs only
Under P 3110 ~~1330~~ 14th Finance
Dt
J.C(Y) PR/AS/80/15-16
dated 18-2-2016 50.00 lakhs

Bangalore-92

Name of work :- Development and improvements to roads & drains in main roads and Cross roads of ward no-03 Attur.



B.N Prasad.

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